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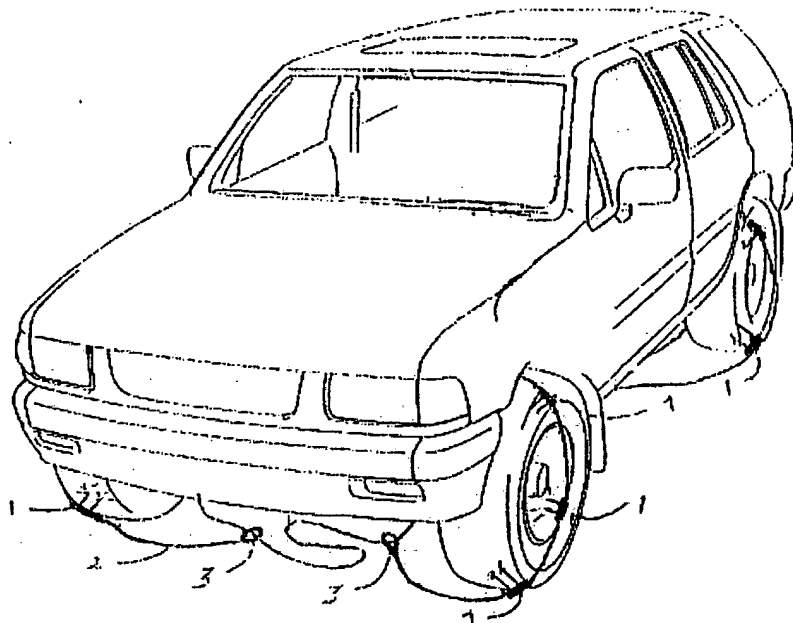
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(71) Demandeur/Applicant:
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(72) Inventeur/Inventor:
COLLIER, ACE R., US

(54) Titre : **PIECE POUR ROUES D'AUTOMOBILE**

(54) Title: **AUTOMOBILE WHEEL AND TRACK SNARE**



(57) Abrégé/Abstract:

What I claim to be my invention is a vehicle disabling device wherein a plurality of holding spike like probes with base plates strung on to a cable of wire rope with ends fashioned in to a running boline or noose to chock and hold vehicle tires wheels and control arms wheels meaning part steel or all steel all steel such as on a track driven vehicle.

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ABSTRACT

What I claim to be my invention is a vehicle disabling device wherein a plurality of holding spike like probes with base plates strung on to a cable of wire rope with ends fashioned in to a running boline or noose to chock and hold vehicle tires wheels and control arms wheels meaning part steel or all steel all steel such as on a track driven vehicle.

METHOD FOR DISABLING WHEEL AND TRACK DRIVEN VEHICLE

FIELD OF THE INVENTION

The device is an invention to disable vehicles.

BACKGROUND OF THE INVENTION

Every year persons are killed in high speed motor vehicle chases, when police are forced into chasing fleeing suspects. The victim of these high speed chases include police officers, suspects, and members of the public. Members of the military are often time victim.

Description of the prior art. Various road barriers and tire piercing structure has been utilized in the prior art to prevent vehicle from fleeing from police. Prior art tire piercing apparatus is exemplar in U.S. Pat. No. 4,473, 948 Chadwick where in a base plate includes a plurality of pins projecting upwards of the base plate to prevent an automobile from being driven. U. S. Pat. No. 4,382,714 Hutchison this invention is a vehicle disabling device adapted to project a plurality of spike like devices to puncture one or more tires of a fleeing vehicle. Spike bases secured to bases by either a strand or cord also a short length of chain.

Collier

U.S. Appl. No. 60/136,142 Filing date May 14, 1999

1 Review fig. 7 fig. 8

2 Fig. 7. no. 2 is base plate, no. 5 cable
3 sleeve, view show tire ridding up on and
4 holding base plate in place. Fig. 8 view
5 of three wheels being caught up by a three
6 cable set of snairs on a 4 wheel drive
7 vehicle. Fig. 9 is folding deployment board
8 with cable spikes and bases attached with
9 break away clips.

10 The object of the invention is to pro-
11 vide vehicle stoping device in quickest
12 possible time. This is done by using a tire
13 snair that grabs and holds the tire in its
14 place. Snair spikes are polly coated as they
15 inter the tire the air pressure staves
16 intact. If the tires are jelled or solid so
17 much the better. Cable is theaded threw
18 guide sleeves attached to bottom of base
19 plate. Each end of cable has sliding noose
20 to effect a tether. As the tire and wheel
21 become impaled probes and cable are pulled
22 up and around the wheel in a diaginal effect,
23 probes grip the sides of wheel and tire causing
24 a coil that raps around wheel control arms
25 and drive axles, this action renders the
26 vehicle immovable.

27 The device is simplistic compact, easy to
28 manufacture transport and deploy. O-mitting
deployment board rapping with rubber cord
device may be deployed by aircraft.

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BRIEF DESCRIPTION OF DRAWINGS

Fig. 1. is a side view of base plate.
Fig. 4. is a isometric projection of base plate showing sleeve with cable and impaling screws.

Fig. 2. is a view of cable and spike screw. folding base with hinges for deployment.

Fig. 3. is a view of device laid out in front of vehicle.

Fig. 5. is a view showing cable with loops coiling around wheels control arms and drive axles. Cable clamp for cable loop.

Fig. 6. is a view showing cable snare gripping wheel. No.2 spikes.

Fig. 7. shows tire holding spike base plate to facilitate spike penetration.

Fig. 8. showing 3 cable snare locking on to 3 wheels of a 4 wheel drive vehicle.

Fig. 9 cable spikes with base plates and folding deployment board.

Collier Appl. No. 60/136.142 What I claim 1. 4,5.

SUMMARY OF THE INVENTION

1 What is required is a method and apparatus
2 that can be used to halt a suspect's motor
3 vehicle in advance of police chase, render-
4 ing a high speed chase unnecessary. In its
5 preferred embodiment the wheel and track
6 snair consists of a folding deployment board
7 + Ten feet long, one or two feet wide, meas-
8 urments can be aproxamented depending on the
9 immediate requirements, as the device can
10 be assembled in a very short time. The device
11 with its built in nomanclature is designed to
12 halt a vehicle in a very short time, with in
13 moments of contact. If only one front wheel
14 is snared cable and spikes will reach a
15 rear wheel coiling around said wheel ren-
16 dering it motionless. Add one more cable
17 snair for four wheel drive vehicle. Half-
18 track or all track vehicle such as military
19 armored tank snair deviation will be ex-
20 planed here in after. If device snair one
21 front wheel and one rear wheel although not
22 explicitly depicted vehicle will be
23 brought to a halt.
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28

COLLIER

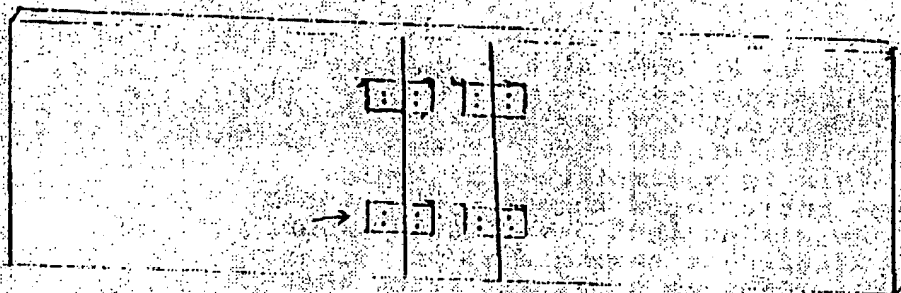
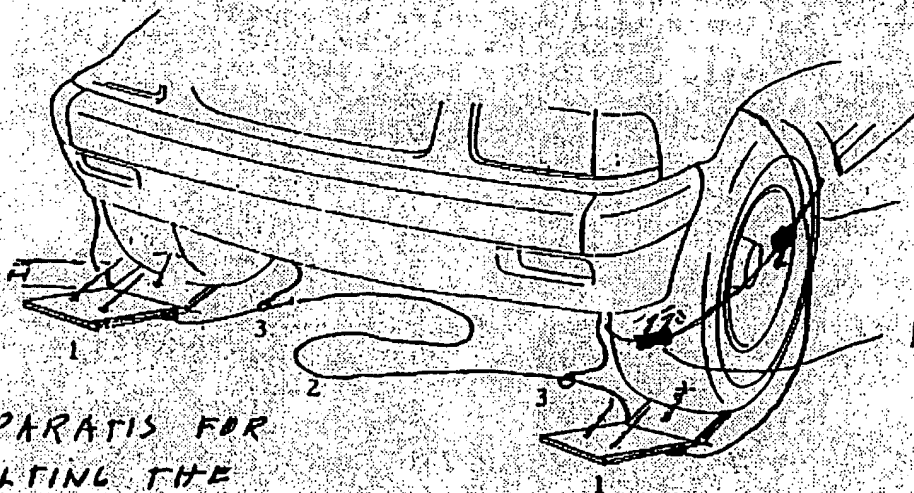


FIG. 2



APPARATUS FOR
HAULTING THE
PROGRESS OF
VEHICLE

FIG. 3

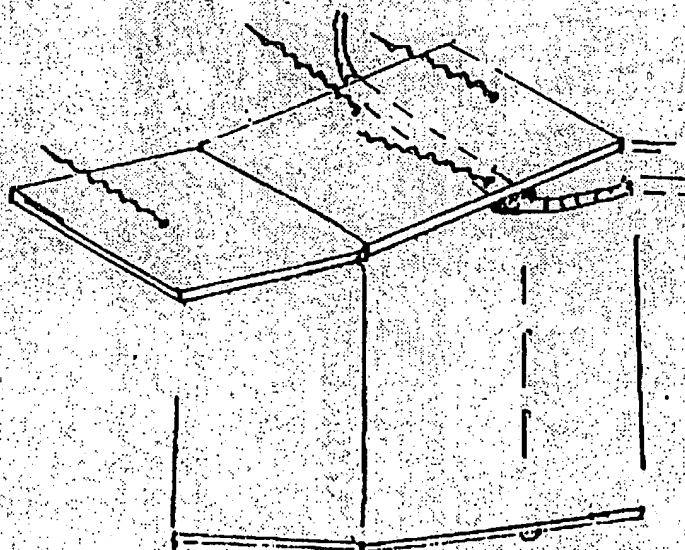


FIG. 4

FIG. 1

Collier Appl, No. 60/136, 142 Filed May 14, 1999 US

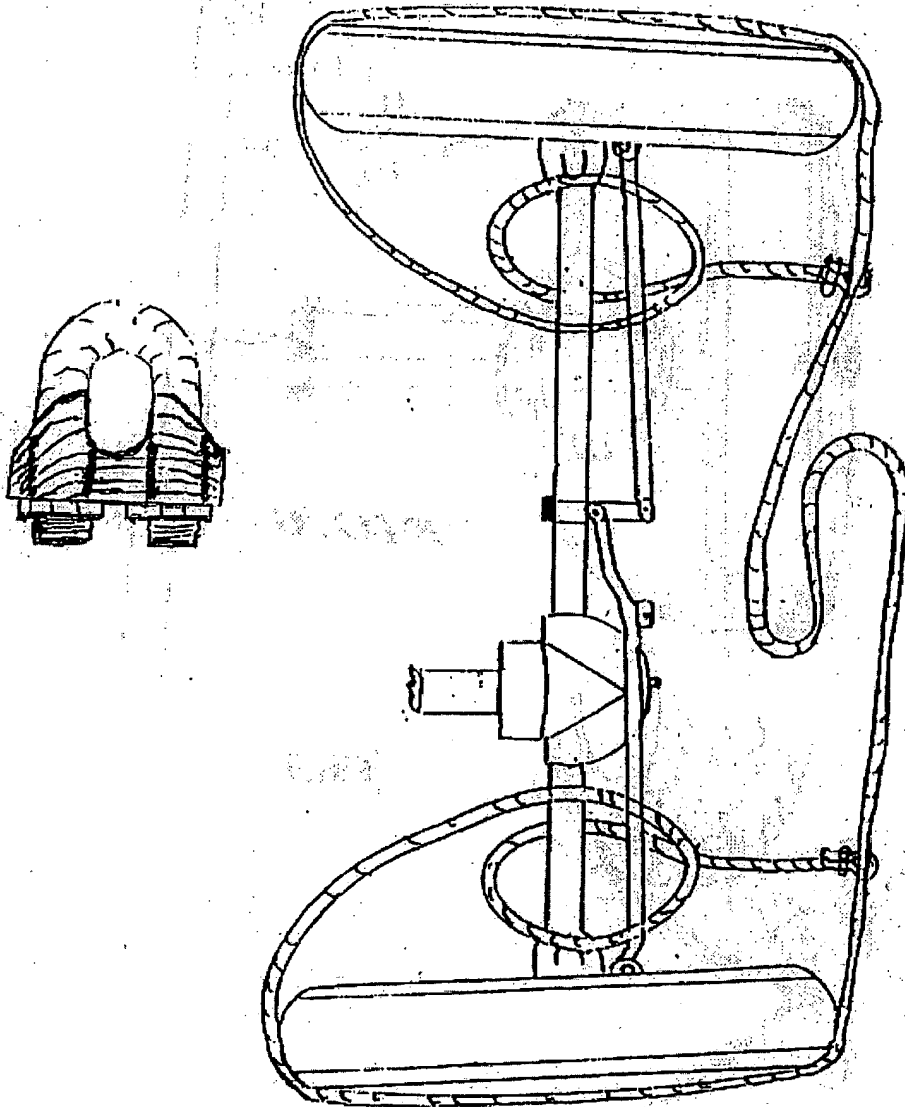
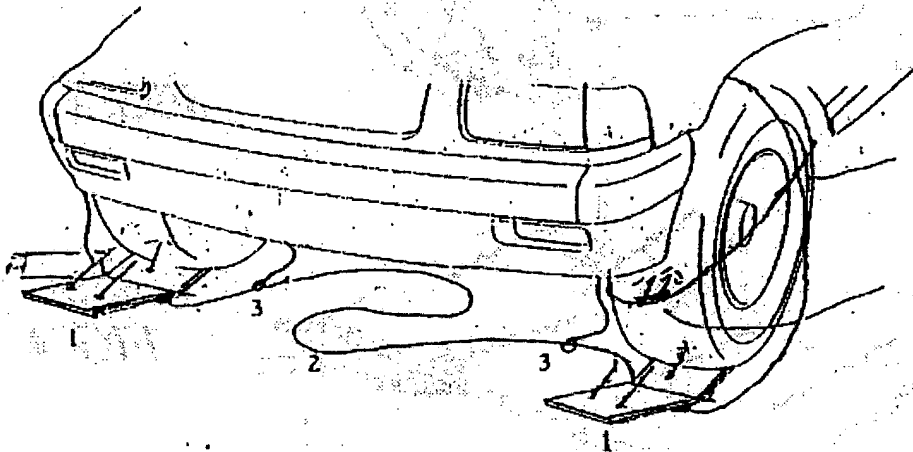


FIG. 5

Ace Robert Collier
P.O. BOX. 590
Bouse Az. 85325-0590

What I claim to be my invention is a vehicle disabling stopping device that will bring vehicle to a very quick stop. A one to ten vehicle regardless of the wheel or track configuration. This is accomplished by using aircraft type cable laced through guide tubes welded to base plates that have two to four tire probes attached to base plate; on track driven vehicle grappling hooks are used. When vehicle engages the device the probes lock on to the tire solid or inflated. On track driven hooks lock on to track shoe and drive sprocket wheels. Cable ends are fashioned with a running boline using a double clevis for heavy vehicle. The cable coils around spinning wheels and track shorting the cable until it chocks the wheels control arms drive axles and sprocket wheels.



Collier Appl. No. 60/136,142 Filed May 14, 1999 U.S.

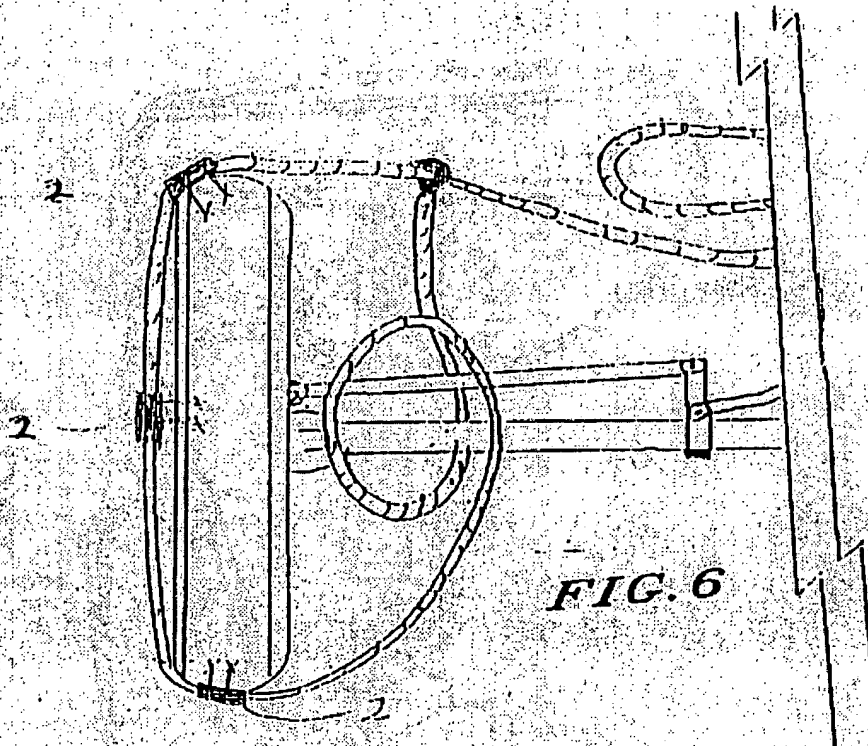


FIG. 6

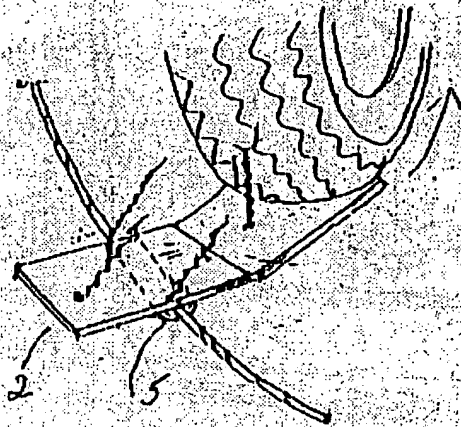


FIG. 7

collier

Appl. No. 60/136,142 Filed May 14, 1999

Wheel and track snair

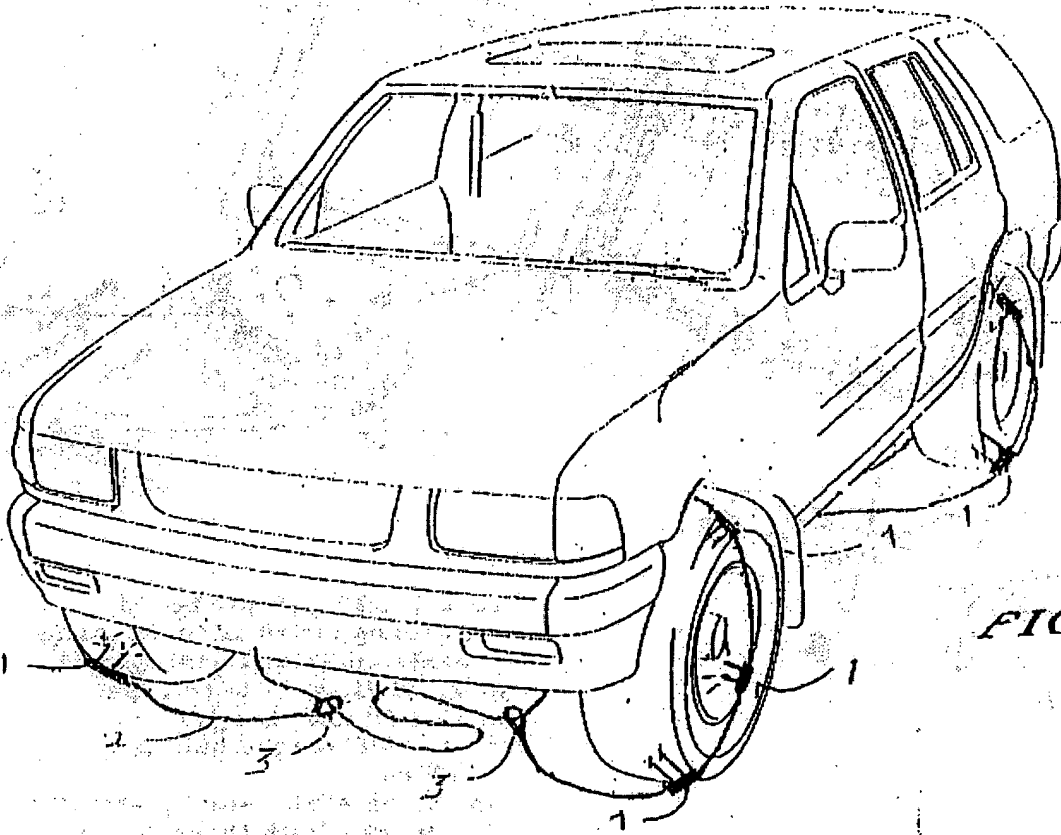


FIG. 8

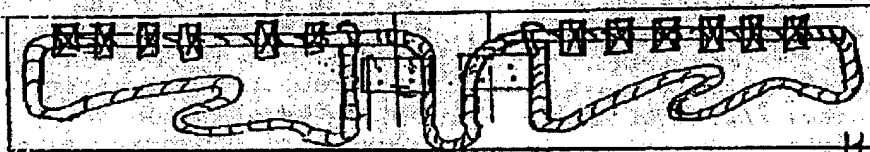
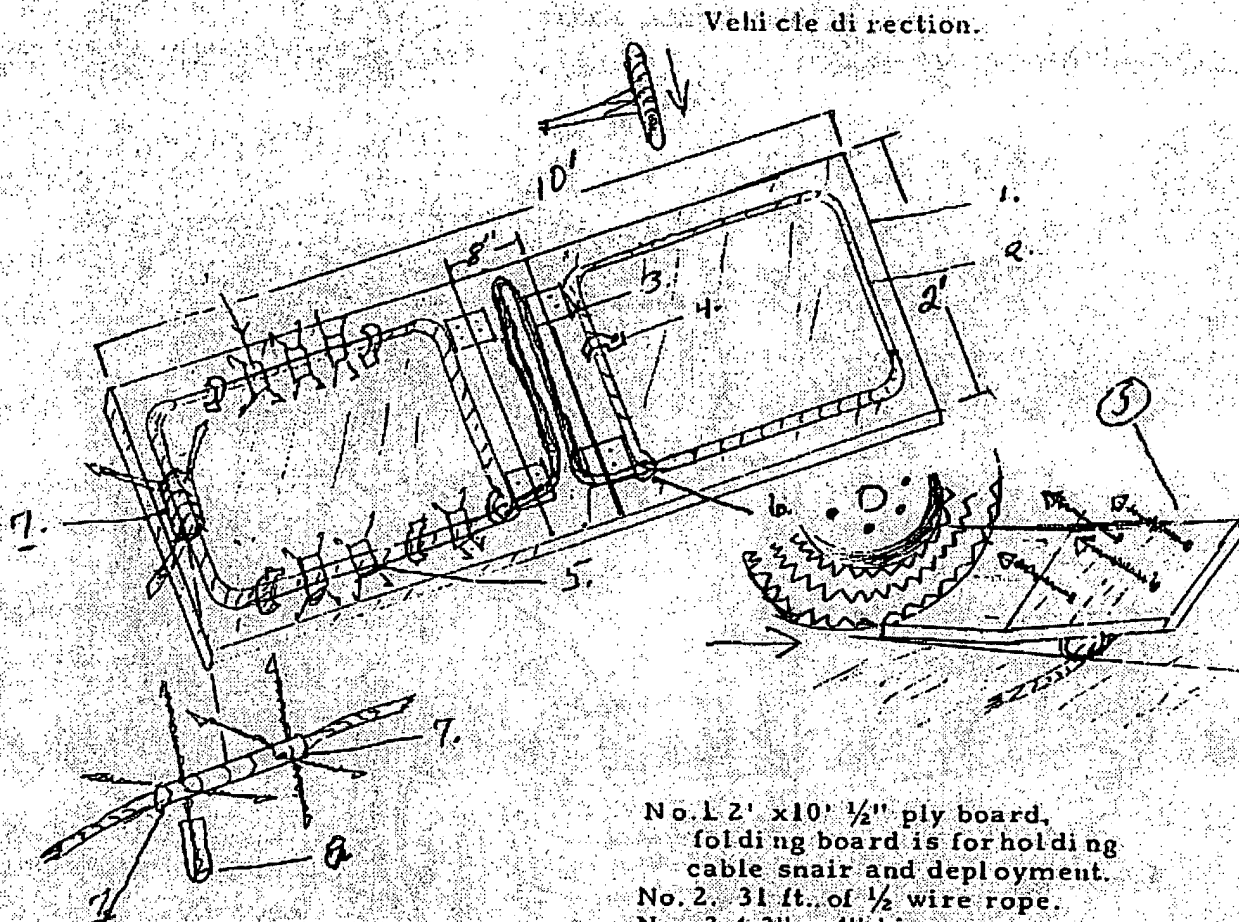


FIG. 9

1/15 OK

"COLLIER AUTOMOBILE WHEEL SNAIR"



- No. 6. Slip knot for sinching effect on wheel and tire.
 No. 7. Out side multi barbed cylinder for locking into tire and wheel. Cylinder is $\frac{1}{2}$ x 6" 8 $\frac{3}{2}$ " barbs set at 5 inches apart and 90 degree angle.
 3. cover.

- No. 1 2' x 10' $\frac{1}{2}$ " ply board, folding board is for holding cable snair and deployment.
 No. 2. 31 ft. of $\frac{1}{2}$ wire rope.
 No. 3. 4 3" x 4" hinges.
 No. 4. 16 2" cable hold down clips.
 No. 5. 56 4" x 8" steel plate $\frac{3}{8}$ " thick. With three 3 in. x $\frac{5}{16}$ " tapered steel barbs. Plate has 4 $\frac{1}{2}$ " spindle for cable to pass threw and 3" x 4" toe plate to hold spikes against tire. Spikes will penetrate tire at different angle causing grip. Toe plate set at 10 degree angle.

Inventor Ace R Collier.

Inception, May 7, 1998.

This inception can be used on military tanks.

Ace R Collier
 May 7, 1999

7-2000

BLEVINS

PRIOR ART

PAT NO. U.S. 6,206,603 B1

3-27-2001

(22) 6-14-99

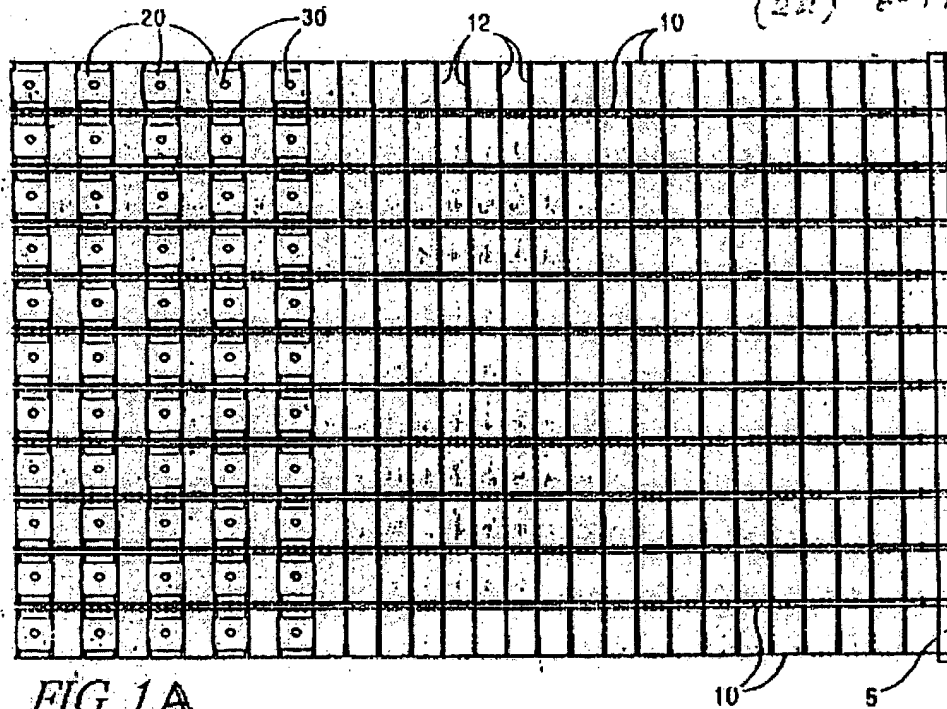


FIG. 1A

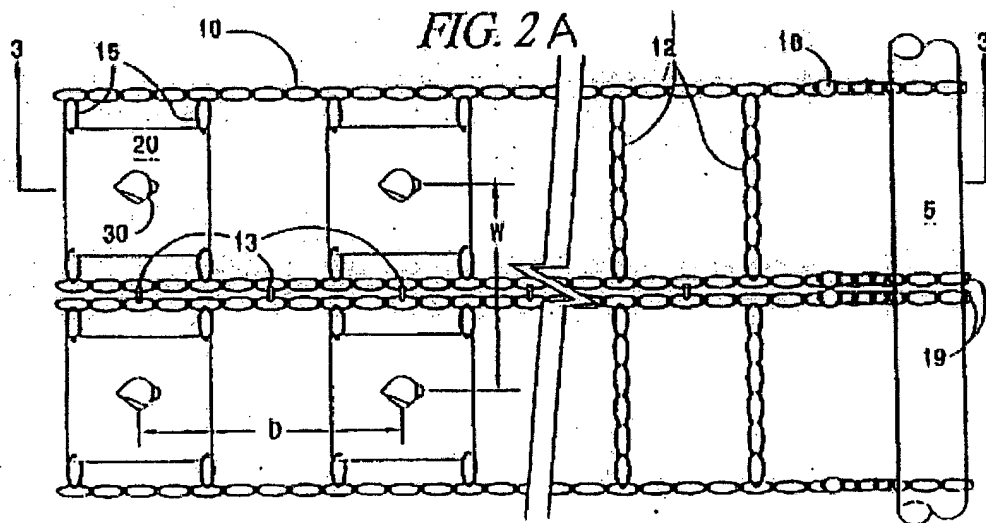
PRIOR ART

FIG. 2A

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